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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/692,227	10/23/2003		Rajeev B. Rajan	MSFT-2850/306820.01	8383
23377	7590	06/29/2005		EXAMINER	
		HBURN LLP	EHICHIOYA, FRED I		
1650 MARK		E, 46TH FLOOR ET	ART UNIT	PAPER NUMBER	
PHILADEL	PHIA, PA	19103	2162		
				DATE MAILED: 06/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	1 - · · · · · · · · · · · · · · · · · ·						
	Application No.	Applicant(s)					
Office Astion Commons	10/692,227	RAJAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Fred I. Ehichioya	2162					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	nety filed s will be considered timety. the mailing date of this communication. C (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on <u>04 A</u>	<u>pril 2005</u> .						
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	∑ This action is FINAL. 2b) This action is non-final.						
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
<ul> <li>4)  Claim(s) 1 - 9 and 25 - 33 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1 - 9 and 25 - 33 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(c)							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:						

### **DETAILED ACTION**

## Response to Arguments

- Applicant's arguments with respect to claims 1 9 and 25 33 filed November
   2004 have been fully considered but they are not persuasive for the following reasons.
- 2. Applicants argue: "None of the portions of the Pederson references cited in the Office Action describes the applicants' claimed concept of storing the data of some fields of an instance of a user defined type within a database store while storing the data of one or more other fields of the instance as a separated file outside of the database store" (page 10,paragraph 2).

Examiner respectfully disagrees with all of the allegations as argued. Examiner, in his previous office action, gave detail explanation of claim limitations and pointed out exact locations in the cited prior arts.

In response to Applicants' argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., storing the data of one or more other fields of the instance as a separated file outside of the database store) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

However, Pederson discloses at least one of said fields of the definition being designated as containing data of a type that is to be stored as a file outside of the Database store separately from the other fields of the type definition as claimed (As shown in column 5, lines 13 – 20, Pederson discloses User defined data-types that are associated with some fields. Pederson also discloses at column 3, lines 48 – 53 first database and second database which are separate from each other that store these user defined data-types).

3. In view of the above, the examiner contents that all limitations as recited in the claims have been address in this Action. For the above reasons, Examiner believed that rejection of the last Office action was proper.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Application/Control Number: 10/692,227

Art Unit: 2162

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 2, 9, 25, 26, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent 6,671,687 issued to Donald R. Pederson et al (hereinafter "Pederson") in view of U.S. Patent 6,785,690 issued to Thomas J. Davidson (hereinafter "Davidson").

Regarding claims 1 and 25, Pederson teaches in a system in which an object that is an instance of a user defined type can be persisted in a database store (see Pederson column 4, lines 15 – 17), wherein a definition of the user defined type comprises one or more fields and behaviors (see Davidson column 3, lines 11 – 17), each field having a respective data type, at least one of said fields of the definition being designated as containing data of a type that is to be stored as a file outside of the database store separately from the other fields of the type definition (see Pederson column 3, lines 48 – 53 and column 5, lines 13 - 20), a method comprising:

storing the data in said at least one designated field of the instance of the object as a file outside of the database store (see column 4, lines 13 - 23); and

storing the data in each of the other fields of the instance of the object within the database store (see column 2, lines 19 - 25).

Pederson does not explicitly indicate claimed "receiving a request to store an object that is an instance of the user defined type".

Art Unit: 2162

Davidson teaches receiving a request to store an object that is an instance of the user-defined type (see column 3, lines 10 – 18 and column 4, lines 18 – 23).

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine teaching of the cited references because Davidson's teaching of "receiving a request to store an object that is an instance of the user-defined type" would have allowed Pederson's system to keep data items in the persistent storage as object instance to be specified in the information object catalog as suggested by Davidson at column 1, lines 65 – 66.

Further, "receiving a request to store an object that is an instance of the userdefined type" as thought by Davidson improves forming object instances of the collected data available to an application manager, see column 4, lines 20 – 22.

Regarding claims 2 and 26, Pederson teaches providing a link between the data of the fields of the object that are stored within the database store and the data of the field that is stored as a file outside of the database store (see column 3, lines 29 - 47).

Regarding claims 9 and 33, Davidson teaches wherein the type of the object is defined as a class in managed code (see column 2, lines 45 – 54).

 Claims 3 - 8, and 27 - 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pederson in view Davidson and further in view of U.S. Patent 6,070,174 issued to Robert Phillip Starek et al (hereinafter "Starek"). Application/Control Number: 10/692,227

Art Unit: 2162

Regarding claims 3 and 27, Pederson or Davidson does not explicitly teach wherein the data of the fields of the object that are stored within the database store are stored as fragments within a column of a table of the database, the column having been designated as the user defined type.

Starek teaches wherein the data of the fields of the object that are stored within the database store are stored as fragments within a column of a table of the database, the column having been designated as the user defined type (see column 10, lines 29 - 51).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine teaching of Starek with the teaching of Pederson and Davidson to provide system with a method and apparatus for enhancement of file system calls to a file structure of an operating system. The motivation is that the interception of file system calls such that supplemental file management processes can be performed in a manner transparent not only to the user but also to the operating system.

Regarding claims 4 and 28, Davidson teaches wherein a unique identifier associated with the object is stored in another column of the table in a same row as the data of the fields of the object (see column 6, lines 39 - 53).

Regarding claim 5, Starek teaches wherein the data in said at least one designated field of the object is stored as a file within a predetermined directory of a file

system of a computer on which the database server is executing (see column 10, lines 14 - 18).

Regarding claims 6 and 30, Davidson teaches providing access by an application to the file in which the data of said at least one field is stored outside the database store via the file system of the computer (see column 2, lines 32 – 44).

Regarding claims 7 and 31, Starek teaches wherein said step of providing access by an application to the fire in which the data of said at least one field is stored comprises:

receiving a call from the application, via an application programming interface to the file system of the computer, to open the file, wherein the call identifies the field of the object by its identity within the database store (see column 7, lines 9-20);

determining from the identity of the field of the object within the database store a path within the file system of the computer to the file containing the data of that field of the object (see column 4, lines 23 – 32); and

executing the call to open the file using the determined path (see column 3, line 65 – column 4, line 6 and column 7, lines 16 – 21).

Regarding claims 8 and 32, Starek teaches wherein the file system of the computer comprises a Microsoft NTFS file system and wherein the application

Art Unit: 2162

programming interface to the file system comprises the Win32 application programming interface (see column 9, lines 1-6).

Regarding claim 29, Starek teaches wherein the program code causes the computer to store the data in said at least one designated field of the object as a file within a predetermined directory of a file system of a computer on which the system is Implemented (see column 14, lines 14 – 18).

### Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 10/692,227

Art Unit: 2162

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred I. Ehichioya whose telephone number is 571-272-4034. The examiner can normally be reached on M - F 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on 571-272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fred I. Ehichioya Patent Examiner Art Unit 2162

June 27, 2005

SHAHID ALAM SHAHID ALAM SHIMARY EXAMINER Page 9